

Assistant Professor

Macau University of Science and Technology

Macau Environmental Research Institute

Faculty of Innovation Engineering

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Academic Qualification:

Ph.D in Environmental Sciences, Nankai University, Tianjin, China

MSc in Environmental Sciences, Nankai University, Tianjin, China

BSc in Environmental Sciences, Nankai University, Tianjin, China

Teaching Area

Atmospheric Environment; Environment and Sustainable Development; Environmental Sciences

Research Area

Atmospheric chemistry; Emission inventory; Air quality modeling and forecasting

Working Experience

Assistant professor, Macau Environmental Research Institute, Macau University of Science and Technology (MUST) (Sep 2016 -);

Assistant professor, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences (RCEES) (July 2011- Aug 2016).

Research Grants

2022

2021-2024

ization, Causes and Source Apportionment of

Macao, 0064/2020/A2

2020-2022

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-FDCT Project, 0009/2019/AMJ

2020-2021

ON/DSPA/2020

2020

2019-2020

f Atmospheric Pollutants and Greenhouse

Representative publications (Complete publication refer to my webpage)

HaoYin, Youwen Sun*, **Yan You***, Justus Notholt, Mathias Palm, Wei Wang, Changgong Shan, Cheng Liu. Using machine learning approach to reproduce the measured feature and understand the model-to-measurement discrepancy of atmospheric formaldehyde. *Science of The Total Environment*, Volume 851, Part 2, 10 December 2022, 158271

Jia Jia*, **Yan You***, Shanlin Yang and Qingmei Shang. Analysis of the Effect of Economic Development on Air Quality in Jiangsu Province Using Satellite Remote Sensing and Statistical Modeling, *Atmosphere*. 2022 13(5), 697.

Xuan Zheng, Xiao He, **Yan You**, Shaojun Zhang, Bin Zhao, Xuan Wang, Guanghan Huang, Ting Chen, Yihuan Cao, Liqiang He, Xing Chang, Shuxiao Wang, Ye Wu. Comprehensive chemical characterization of gaseous I/SVOC emissions from heavy-duty diesel vehicles using two-dimensional gas chromatography time-of-flight mass spectrometry. *Environmental Pollution*, 2022, 35:119284.

Ting Chen, Xuan Zheng, Xiao He, **Yan You**, Guanghan Huang, Yihuan Cao, Liqiang He, Yanping Mao, Ye Wu. Comprehensive characterization of polycyclic aromatic hydrocarbon emissions from heavy-duty diesel vehicles utilizing GC × GC-ToF-MS. *Science of the Total Environment*, 2022,833: 155127.

Yongming Ju#, Dongyang Deng, Honghua Li#, **Yan You#**, Junqin Qiao, Lianghu Su, Weilong Xing, Mengyuan Liang, Dionysios D. Dionysiou. Rapid detoxification of dioxin and simultaneous stabilization of targeted heavy metals: New insight into a microwave-induced pyrolysis of fly ash. *Chemical Engineering Journal*,2021, 131939

Zhongcai Wang, Qingbin Song*, **Yan You**, Huabo Duan, Wenyi Yuan, Jinhui Li. Identifying the lifecycle ODP and GWP effects of the refrigerants from household air-conditioners in Macau, *Environmental Impact Assessment Review*, Volume 90, September 2021, 106639

YongmingJu, KairuZhang, TiantianYang, DongyangDeng, JunqinQiao, PuWang, **Yan You**, Ling Du, Guihua Chen, , Dionysios D. Dionysiou. The influence of a washing pretreatment containing phosphate anions on single-mode microwave-based detoxification of fly ash from municipal solid waste incinerators. *Chemical Engineering Journal*, 387, 1 May 2020, 124053

Bin Han*, **Yan You***, Yating Liu, Jia Xu, Jian Zhou, Jiefeng Zhang, Can Niu, Nan Zhang, Fei He, Xiao Ding, Zhipeng Bai. Inhalation cancer risk estimation of source-specific personal exposure for particulate matter-bound polycyclic aromatic hydrocarbons (PAHs) based on positive matrix factorization. 2019. *Environmental Science and Pollution Research*, 26(10): 10230 10239.

Journal Editorship

Early Career Board Member of Eco-Environmental Health

Personal Website